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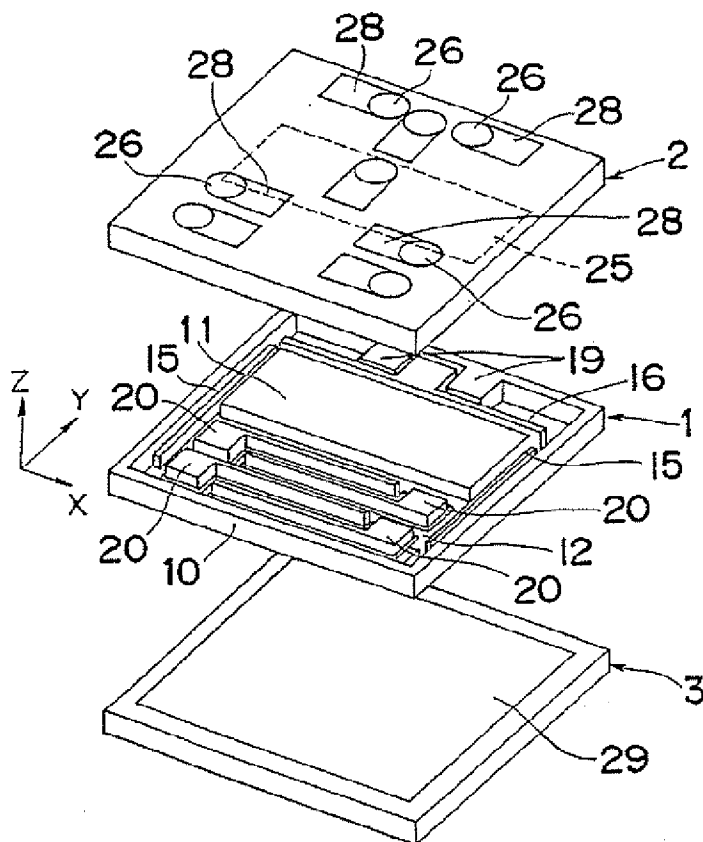
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- (81) **Designated States** (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,

[Continued on next page]

- (54) Title: GYRO SENSOR AND SENSOR APPARATUS USING SAME



(57) Abstract: The primary base plate (1) is provided with a driven mass body (11) to be driven in such a manner as to be vibrated in a direction intersecting with a surface of the support base plate (2), and a detection mass body (12) coupled with the driven mass body (11) through a drive spring (13) and adapted to be displaceable in a plane along the support base plate (2). Two detection springs (15) extending in the arranging direction of the driven mass body (11) and the detection mass body (12) are connected, respectively, to opposite sides of the detection mass body (12), and the other ends of the detection springs (15) are connected together through a coupling segment (16).



CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

## Continuation of Form PCT/IB/301

## NOTIFICATION OF RECEIPT OF RECORD COPY

Date of mailing (day/month/year) 28 April 2005 (28.04.2005)	IMPORTANT NOTIFICATION
Applicant's or agent's file reference 665092	International application No. PCT/JP2005/004870
<p><b>ATTENTION</b></p> <p>The applicant should carefully check the data appearing in this Notification. In case of any discrepancy between these data and the indications in the international application, the applicant should immediately inform the International Bureau.</p> <p>In addition, the applicant's attention is drawn to the information contained in the Annex, relating to:</p> <ul style="list-style-type: none"><li>- time limits for entry into the national phase - see updated important information (as of April 2002)</li><li>- requirements regarding priority documents (if applicable)</li></ul> <p>A copy of this Notification is being sent to the receiving Office and to the International Searching Authority.</p>	

## INTERNATIONALSEARCHREPORT

International application No.

PCT/JP2005/004870

**Box No. II** Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III** Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

Claims 1, 3-5, 7, 14 are not new compared to D1: JP2003-194545 A.

Feature in Claim 2 is Shape of the support spring, Claim 6 is Capacitance-adjusting electrode, Claim 8 is Divided stationary driving electrode, Claim 9 is Distance-adjusting electrode, Claim 10 is Stationary driving electrode avoids a maximum amplitude region, Claim 11 is "Said electrode wiring" (not mentioned in preceding claims), Claim 12 is Thickness of driven mass body, Claim 13 is Through-hole in driven mass body, Claim 15 is Specified structure to detect acceleration, Claim 16 is Using a pair of gyro sensors.

There is no special technical feature common to above claims. It is obvious that they are not linked so as to form a single general inventive concept.

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☒ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:  
1-5, 7, 14

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

## PCT REQUEST

Original (for SUBMISSION )

0	For receiving Office use only	
0-1	International Application No.	
0-2	International Filing Date	
0-3	Name of receiving Office and "PCT International Application"	
0-4	Form PCT/RO/101 PCT Request	
0-4-1	Prepared Using	PCT-SAFE [EASY mode] Version 3.50 (Build 0002.169)
0-5	Petition The undersigned requests that the present international application be processed according to the Patent Cooperation Treaty	
0-6	Receiving Office (specified by the applicant)	Japan Patent Office (RO/JP)
0-7	Applicant's or agent's file reference	665092
I	Title of invention	GYRO SENSOR AND SENSOR APPARATUS USING SAME
II	Applicant	
II-1	This person is	applicant only
II-2	Applicant for	all designated States except US
II-4	Name	MATSUSHITA ELECTRIC WORKS, LTD.
II-5	Address	1048, Oaza-Kadoma, Kadoma-shi, Osaka 5718686 Japan
II-6	State of nationality	JP
II-7	State of residence	JP
II-11	Applicant's registration No. with the Office	000005832
III-1	Applicant and/or inventor	
III-1-1	This person is	applicant and inventor
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III-1-6	State of nationality	JP
III-1-7	State of residence	JP



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III-2	<b>Applicant and/or inventor</b>	
III-2-1	This person is	applicant and inventor
III-2-2	Applicant for	US only
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III-2-6	State of nationality	JP
III-2-7	State of residence	JP
III-3	<b>Applicant and/or inventor</b>	
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III-3-7	State of residence	JP
III-4	<b>Applicant and/or inventor</b>	
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III-4-7	State of residence	JP
III-5	<b>Applicant and/or inventor</b>	
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III-5-4	Name (LAST, First)	HYODO, Satoshi
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III-5-6	State of nationality	JP
III-5-7	State of residence	JP


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IV-1	Agent or common representative; or address for correspondence The person identified below is hereby/ has been appointed to act on behalf of the applicant(s) before the competent International Authorities as:	agent
IV-1-1	Name (LAST, First)	KAWAMIYA, Osamu
IV-1-2	Address	AOYAMA & PARTNERS, IMP Building, 3-7, Shiromi 1-chome, Chuo-ku, Osaka-shi, Osaka 5400001 Japan
IV-1-3	Telephone No.	06-6949-1261
IV-1-4	Facsimile No.	06-6949-0361
IV-1-6	Agent's registration No.	100086405
IV-2	Additional agent(s)	additional agent(s) with same address as first named agent
IV-2-1	Name(s)	AOYAMA, Tamotsu(100062144)
V	DESIGNATIONS	
V-1	The filing of this request constitutes under Rule 4.9(a), the designation of all Contracting States bound by the PCT on the international filing date, for the grant of every kind of protection available and, where applicable, for the grant of both regional and national patents.	
VI-1	Priority claim of earlier national application	
VI-1-1	Filing date	12 March 2004 (12.03.2004)
VI-1-2	Number	2004-071514
VI-1-3	Country	JP
VI-2	Priority claim of earlier national application	
VI-2-1	Filing date	25 November 2004 (25.11.2004)
VI-2-2	Number	2004-341136
VI-2-3	Country	JP
VII-1	International Searching Authority Chosen	Japan Patent Office (ISA/JP)

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<b>VIII</b>	<b>Declarations</b>	<b>Number of declarations</b>	
VIII-1	Declaration as to the identity of the inventor	-	
VIII-2	Declaration as to the applicant's entitlement, as at the international filing date, to apply for and be granted a patent	-	
VIII-3	Declaration as to the applicant's entitlement, as at the international filing date, to claim the priority of the earlier application	-	
VIII-4	Declaration of inventorship (only for the purposes of the designation of the United States of America)	-	
VIII-5	Declaration as to non-prejudicial disclosures or exceptions to lack of novelty	-	
<b>IX</b>	<b>Check list</b>	<b>number of sheets</b>	<b>electronic file(s) attached</b>
IX-1	Request (including declaration sheets)	5	✓
IX-2	Description	82	-
IX-3	Claims	6	-
IX-4	Abstract	1	✓
IX-5	Drawings	25	-
IX-7	TOTAL	119	
	<b>Accompanying Items</b>	<b>paper document(s) attached</b>	<b>electronic file(s) attached</b>
IX-8	Fee calculation sheet	✓	-
IX-9	Original separate power of attorney	✓	-
IX-17	PCT-SAFE physical media	-	✓
IX-18	other	revenue stamps of transmittal fee and search fee for receiving o	
IX-19	Figure of the drawings which should accompany the abstract	1	
IX-20	Language of filing of the international application	English	
<b>X-1</b>	<b>Signature of applicant, agent or common representative</b>		
X-1-1	Name (LAST, First)	KAWAMIYA, Osamu	
X-1-2	Name of signatory		
X-1-3	Capacity		



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## FOR RECEIVING OFFICE USE ONLY

10-1	Date of actual receipt of the purported international application	
10-2	Drawings:	
10-2-1	Received	
10-2-2	Not received	
10-3	Corrected date of actual receipt due to later but timely received papers or drawings completing the purported international application	
10-4	Date of timely receipt of the required corrections under PCT Article 11(2)	
10-5	International Searching Authority	ISA/JP
10-6	Transmittal of search copy delayed until search fee is paid	

## FOR INTERNATIONAL BUREAU USE ONLY

11-1	Date of receipt of the record copy by the International Bureau	
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